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**ABSTRACT**

This invention relates uses of components of plant-like metabolic pathways not including psbA or PPI phosphofructokinase and not generally operative in animals or  
5 encoded by the plastid DNA, to develop compositions that interfere with  
Apicomplexan growth and survival. Components of the pathways include enzymes,  
transit peptides and nucleotide sequences encoding the enzymes and peptides, or  
promoters of these nucleotide sequences to which antibodies, antisense molecules and  
other inhibitors are directed. Diagnostic and therapeutic reagents and vaccines are  
10 developed based on the components and their inhibitors.

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